

# Heliophysics Summer School: 2018

## *Comparative Heliophysics*

Boulder, Colorado

	Heliophysics Core	Heliophysics and Planets		Magnetosphere, Ionosphere, and Asterospheres			Living with Stars & Societal Relevance
	Day 1: Tuesday, July 24	Day 2: Wednesday, July 25	Day 3: Thursday, July 26	Day 4: Friday, July 27	Day 5: Saturday, July 28	Day 6: Sunday, July 29	Day 7: Monday, July 30
8:30-10:00	Welcome and Introductions	Solar and Stellar Winds	Planetary Dynamos	Why does the Earth have a Magnetosphere, Radiation Belts & an Ionosphere?	Coronae, Heliospheres and Asterospheres	Student Research Presentations	Living Stars and Societal Relevance
10:30-12:00	Why do Sun and Planets Have Magnetic Fields?	Dynamo Theory: Basics	Exoplanets	Student Research Presentations	Evolution on Short and Long Time Scales	Planetary Ionospheres	Career Discussion
1:30-3:00	Why is there a Corona and a Wind?	Stellar Dynamos	Explosive Events: CMEs, Flares and Substorms	Planetary Magnetospheres	Time Off	Long-Term Evolution of the Geospace Climate	Summer School Feedback from Students and Adjournment
3:30-5:30	Lab: Tracking a Solar Storm	Lab: Solar Wind	Lab: Dynamos	Lab: Comparative Magnetospheres		Lab: Exploring Ionospheric Structure	